M17-6EP1N8A8003S - Cable connector

1628991

https://www.phoenixcontact.com/us/products/1628991

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The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M17, Cable connector, application: Power, series: M17 PRO, straight, shielded: yes, ONECLICK fast locking system, No. of pos.: 6+PE, contact connection type: Pin, Crimp connection, cable diameter range: 5.5 mm ... 9.5 mm, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- ONECLICK fast locking system with an optically, haptically, and acoustically clear locking position
- Reliable under the harshest conditions: cable connectors with vibration brake
- Modern, consistent design for highly convenient operation
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

Commercial data

Item number	1628991
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBAB
GTIN	4055626705705
Weight per piece (including packing)	76.8 g
Weight per piece (excluding packing)	61.09 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order 7 x Ø 1 mm crimp contacts separately

Product properties

Product type	Circular connector (cable-side)
Product family	M17 PRO

Connector

Insulating body

Flammability rating according to UL 94	V0
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	7
Connection profile	6+PE
Number (Contact group 1)	6
Contact diameter (Contact group 1)	1 mm
Litz wires Min. cross section (Contact group 1)	0.06 mm²
Litz wires Max. cross section (Contact group 1)	1 mm²
Rated current Contact (Contact group 1)	14 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M17
Design	straight
Type of locking	ONECLICK fast locking system
Pg screw connection	none
Material (Housing)	GD-Zn
Degree of protection (plugged in)	IP67
	IP68 (2 m / 24 h)

Seal

External cable diameter	5.5 mm ... 9.5 mm

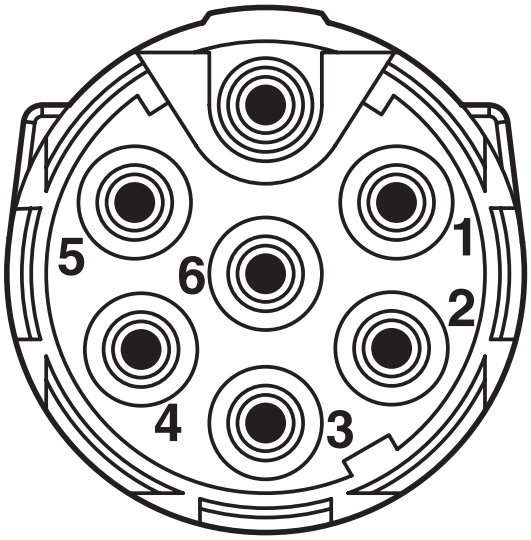
Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (see derating curve)

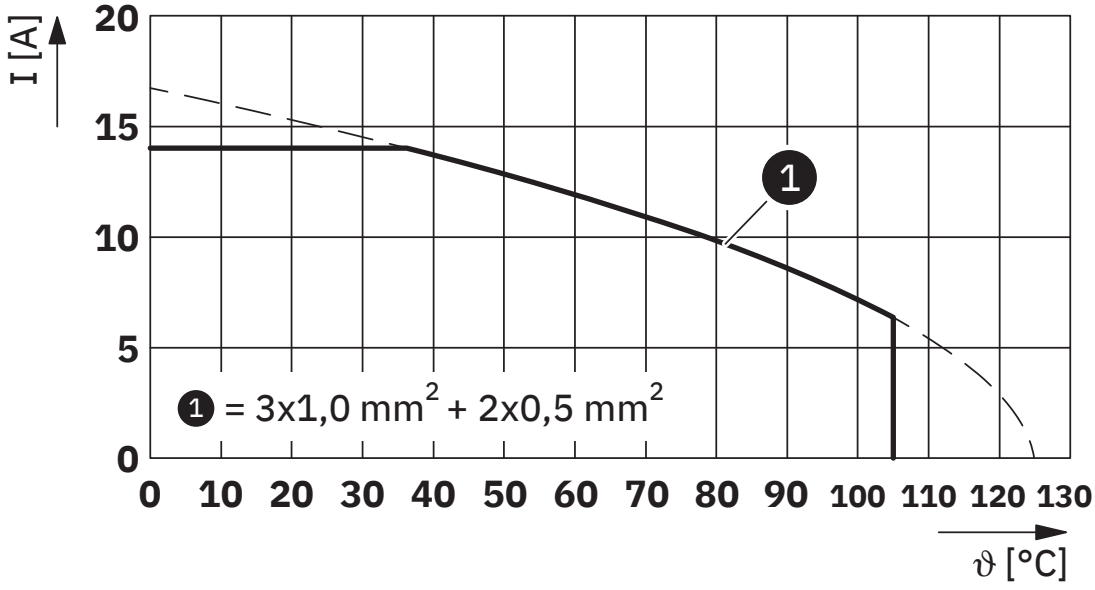
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628991

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	10 A	- 18	1
Signal	60 V	2 A	- 18	1

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	8 A	- 18	-
Signal	60 V	2 A	- 18	-

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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